

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR 2004/003429

## A. CLASSIFICATION OF SUBJECT MATTER

IPC<sup>7</sup>: H01J 65/04, H01J 61/30, G02F 1/13357

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>7</sup>: G02F, H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPOCOD, WPI, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.                                |
|-----------|--|--|
| A         | EP 1 122 759 A2 (SAMSUNG) 8 August 2001 (08.08.2001)<br><i>figures 3, 9-12, paragraphs 10-14, 19-20, 34-41.</i>  | 1-4, 9, 10, 12,<br>13, 14, 16, 17,<br>19, 22, 23, 26 |
|           | --   |  |
| A         | KR2003081866 A (NANOPACIFIC INC) 22 October 2003<br>(22.10.2003) (abstract).[online] [retrieved on 15.03.2005].<br>Retrieved from: EPOQUE WPI Database | 1, 2, 9, 10, 12,<br>14, 16, 17, 19,<br>22, 23, 26    |
|           | --   |  |
| A         | US 2002/0105259 A1 (KIM) 8 August 2002 (08.08.2002)<br><i>figures 2-4, 9C, 9D, paragraphs 33-35, 42.</i>   | 1-3, 9-11, 14,<br>16-18, 20, 22,<br>23, 26           |
|           | --   |  |

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

### \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search  
16 March 2005 (16.03.2005)

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5 April 2005 (05.04.2005)

Name and mailing address of the ISA/ AT  
**Austrian Patent Office**  
Dresdner Straße 87, A-1200 Vienna

Facsimile No. +43 / 1 / 534 24 / 535

Authorized officer

GRONAU E.

Telephone No. +43 / 1 / 534 24 / 320

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                 | Relevant to claim No.   |
|-----------|--|-------------------------|
| A         | US 2003/0132711 A1 (YOO et al.) 17 July 2003 (17.07.2003)<br><i>figures 1-4, 7, paragraphs 8-11, 26-36, 40-44.</i> | 1, 9, 14, 16, 22,<br>26 |
|           | ----   |                         |

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| Patent document cited<br>in search report |    |                 | Publication<br>date | Patent family<br>member(s) |    |            | Publication<br>date |
|---|----|-----------------|---------------------|----------------------------|----|------------|---------------------|
| EP  | A2 | 1122759         | 2001-08-08          | JP                         | A  | 2001222944 | 2001-08-17          |
|   |    |                 |                     | US                         | B1 | 6346775    | 2002-02-12          |
|   |    |                 |                     | KR                         | A  | 2001077686 | 2001-08-20          |
| KR  | A  | 20030818<br>66  | 2003-10-22          | none                       |    |            |                     |
| US  | A  | 20020105<br>259 |                     | none                       |    |            |                     |
| US  | A  | 20030132<br>711 |                     | none                       |    |            |                     |